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| L1 | 170 | circuit\$4 and rule\$2 and violation\$2 and (layout near10 view\$6) | US-PGPUB; USPAT; EPO; JPO; DERWENT |
| L2 | 54 | 1 and (zoom\$5 or magnif\$8) | US-PGPUB; USPAT; EPO; JPO; DERWENT |
| L3 | 46 | 5325309.uref. | US-PGPUB; USPAT; EPO; JPO; DERWENT |
| L4 | 103 | circuit\$4 and ((defect\$5 and layout) near10 view\$6) | US-PGPUB; USPAT; EPO; JPO; DERWENT |
| L5 | 1559 | circuit\$4 and (design near10 layout) and view\$6 and (violation\$2 or defect\$2) | US-PGPUB; USPAT; EPO; JPO; DERWENT |
| L6 | 78 | 5 and view\$6 near10 (violation\$2 or defect\$2) | US-PGPUB; USPAT; EPO; JPO; DERWENT |
| L7 | 1 | 20010020194.PN. | US-PGPUB |
| L8 | 1 | 6507933.PN. | USPAT; USOCR |
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| L10 | 36 | 5896300 | US-PGPUB; USPAT; EPO; JPO; DERWENT |
| L11 | 6 | 5896300.PN. or "6009252".pn. or "6115546".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT |
| L12 | 10 | 6009252.uref. | US-PGPUB; USPAT; EPO; JPO; DERWENT |

Results of search set L4:

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| US 20040169850 A1 | System and method for double sided optical inspection of thin film disks or wafers | 20040902 | 356/237.2 |
| US 20040155999 A1 | Liquid crystal display device and electronic apparatus | 20040812 | 349/114 |
| US 20040134231 A1 | Liquid crystal display unit-use glass substrate and method of producing mother glass and mother glass inspection device | 20040715 | 65/29.11 |
| US 20040121571 A1 | Semiconductor device and a method of manufacturing the same | 20040624 | 438/586 |
| US 20040090566 A1 | Thin film transistor array panel | 20040513 | 349/43 |
| US 20040086170 A1 | Pattern inspecting method and apparatus thereof, and pattern inspecting method on basis of electron beam images and apparatus thereof | 20040506 | 382/149 |
| US 20040080938 A1 | Uniform illumination system | 20040429 | 362/231 |
| US 20040055793 A1 | Electromagnetic inductive system with multi-induction loop layout and battery less pointer device and its method for locating the coordinate | 20040325 | 178/18.01 |
| US 20040004879 A1 | Semiconductor integrated circuit device | 20040108 | 365/203 |
| US 20030229865 A1 | Method for eliminating false failures saved by redundant paths during circuit area analysis on an integrated circuit layout | 20031211 | 716/4 |
| US 20030205731 A1 | Semiconductor integrated circuit device and manufacturing method thereof | 20031106 | 257/200 |

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| US 20030186490 A1 | Semiconductor circuit and method of fabricating the same | 20031002 | 438/166 |
| | Electro-optical apparatus having faces holding electro-optical material in between flattened by using concave recess, manufacturing method thereof, and electronic device using same | 20031002 | 349/158 |
| US 20030184705 A1 | Thin Film Transistor Array Panel | 20030612 | 257/72 |
| US 20030107039 A1 | Electro-optical apparatus, driving substrate for an electro-optical apparatus and method of manufacturing them | 20030417 | 257/350 |
| US 20030071309 A1 | Apparatus for inspecting a specimen | 20030403 | 382/149 |
| US 20030063792 A1 | Pattern inspection method and system therefor | 20030403 | 250/492.2 |
| US 20030062487 A1 | Inspection method and its apparatus, inspection system | 20030313 | 702/82 |
| US 20030050761 A1 | Electronic parts assembling and testing method, and electronic circuit baseboard manufactured by the method | 20030306 | 228/103 |
| US 20030042289 A1 | Method and its apparatus for inspecting a pattern | 20030109 | 382/149 |
| US 20030007677 A1 | Semiconductor integrated circuit device and manufacturing method thereof | 20021121 | 438/200 |
| US 20020173091 A1 | | | |
| US 20020170028 A1 | Computer-aided layout design system with automatic defect-zooming function | 20021114 | 716/11 |
| US 20020153536 A1 | Semiconductor device | 20021024 | 257/197 |
| US 20020149020 A1 | Thin film transistor array panel | 20021017 | 257/72 |
| | Electro-optical apparatus having faces holding electro-optical material in between flattened by using concave recess, manufacturing method thereof, and electronic device using same | 20021010 | 349/43 |
| US 20020145683 A1 | Recording apparatus and recording method | 20020502 | 369/47.39 |
| US 20020051412 A1 | Semiconductor device and method for fabricating the same | 20020307 | 438/132 |
| US 20020028539 A1 | Method of inspecting a pattern and an apparatus thereof and a method of processing a specimen | 20011025 | 382/149 |
| US 20010033683 A1 | Information storage medium, information recording method, and information reproduction method | 20011025 | 365/200 |
| US 20010033517 A1 | Electric wiring forming system | 20011025 | 29/740 |
| US 20010032387 A1 | | | |
| US 20010024859 A1 | Semiconductor integrated circuit device and a method of manufacturing thereof | 20010927 | 438/286 |
| US 20010020718 A1 | Semiconductor integrated circuit device and a method of manufacturing thereof | 20010913 | 257/326 |
| US 20010019499 A1 | Semiconductor integrated circuit device | 20010906 | 365/182 |
| | Method for eliminating false failures saved by redundant paths during circuit area analysis on an integrated circuit layout | 20041026 | 716/5 |
| US 6810510 B2 | Inspection method and its apparatus, inspection system | 20040928 | 702/82 |
| US 6799130 B2 | Method of making wiring and logic corrections on a semiconductor device by use of focused ion beams | 20040622 | 438/676 |
| US 6753253 B1 | TFT LCD active data line repair | 20040224 | 345/93 |
| US 6697037 B1 | | | |

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| US 6671243 B2 | Information storage medium, information recording method, and information reproduction method | 20031230 | 369/59.1 |
| US 6657231 B2 | Thin film transistor array panel | 20031202 | 257/72 |
| US 6614923 B1 | Pattern inspecting method and apparatus thereof, and pattern inspecting method on basis of electron beam images and apparatus thereof | 20030902 | 382/149 |
| US 6613500 B1 | Reducing resist residue defects in open area on patterned wafer using trim mask | 20030902 | 430/394 |
| US 6611458 B2 | Semiconductor integrated circuit device | 20030826 | 365/185.09 |
| US 6611301 B2 | Electro-optical apparatus having faces holding electro-optical material in between flattened by using concave recess, manufacturing method thereof, and electronic device using same | 20030826 | 349/43 |
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| US 6528378 B2 | Semiconductor device | 20030304 | 438/317 |
| US 6519824 B2 | Electric wiring forming system | 20030218 | 29/33M |
| US 6504215 B1 | Electro-optical apparatus having a display section and a peripheral driving circuit section | 20030107 | 257/350 |
| US 6502004 B1 | Method and apparatus for extracting bridges from an integrated circuit layout | 20021231 | 700/110 |
| US 6451636 B1 | Semiconductor device and display device having laser-annealed semiconductor element | 20020917 | 438/166 |
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| US 6441401 B1 | Thin film transistor array panel for liquid crystal display and method for repairing the same | 20020827 | 257/72 |
| US 6433841 B1 | Electro-optical apparatus having faces holding electro-optical material in between flattened by using concave recess, manufacturing method thereof, and electronic device using same | 20020813 | 349/43 |
| US 6423584 B1 | method for forming capacitors and field effect transistors in a semiconductor integrated circuit device | 20020723 | 438/152 |
| US 6420754 B2 | Semiconductor integrated circuit device | 20020716 | 257/326 |
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| US 6236615 B1 | Semiconductor memory device having memory cell blocks different in data storage capacity without influence on peripheral circuits | 20010522 | 365/230.03 |
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| US 6184947 B1 | Thin film transistor matrix with repairable bus line | 20010206 | 349/42 |

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| US 6172513 B1 | Method for analyzing electrical contact between two conductive members of semiconductor device without destruction thereof | 20010109 | 324/756 |
| US 6150206 A | Methods of forming integrated circuit capacitors using trench isolation and planarization techniques | 20001121 | 438/238 |
| US 6144214 A | Method and apparatus for use in IDDQ integrated circuit testing | 20001107 | 324/763 |
| US 6137295 A | Method of detecting defect of integrated circuit and apparatus thereof | 20001024 | 324/751 |
| US 6061281 A | Redundancy method and semiconductor circuit | 20000509 | 365/200 |
| US 6020867 A | Display apparatus | 20000201 | 345/87 |
| US 5962867 A | Abatement of electron beam charging distortion during dimensional measurements of integrated circuit patterns with scanning electron microscopy by the utilization of specially designed test structures | 19991005 | 257/48 |
| US 5960256 A | Wafer layout of semiconductor device and manufacturing method thereof | 19990928 | 438/14 |
| US 5947051 A | Underwater self-propelled surface adhering robotically operated vehicle | 19990907 | 114/313 |
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| US 5937290 A | Method of manufacturing semiconductor integrated circuit devices using phase shifting mask | 19990810 | 438/238 |
| US 5872386 A | Wafer layout of semiconductor device | 19990216 | 257/443 |
| US 5821523 A | Combined code reader and digital camera using a common photodetector | 19981013 | 235/472.01 |
| US 5801412 A | Semiconductor device having a capacitance element with excellent area efficiency | 19980901 | 257/296 |
| US 5798831 A | Defect inspecting apparatus and defect inspecting method | 19980825 | 356/237.2 |
| US 5773857 A | Semiconductor device having dummy wiring conductors for suppressing heat-treatment-induced shifting | 19980630 | 257/211 |
| US 5736863 A | Abatement of electron beam charging distortion during dimensional measurements of integrated circuit patterns with scanning electron microscopy by the utilization of specially designed test structures | 19980407 | 324/765 |
| US 5712684 A | Viewing apparatus with visual axis detector | 19980127 | 348/341 |
| US 5680207 A | Defect inspecting apparatus and defect inspecting method | 19971021 | 356/237.3 |
| US 5615163 A | Semiconductor memory device | 19970325 | 365/230.03 |
| US RE35423 E | Method and apparatus for performing automated circuit board solder quality inspections | 19970114 | 378/58 |
| US 5517457 A | Semiconductor memory device | 19960514 | 365/230.03 |
| US 5497381 A | Bitstream defect analysis method for integrated circuits | 19960305 | 714/745 |
| US 5477067 A | Semiconductor IC device having a RAM interposed between different logic sections and by-pass signal lines extending over the RAM for mutually connecting the logic sections | 19951219 | 257/211 |
| US 5309246 A | Technique for generating additional colors in a halftone color image through use of overlaid primary colored halftone dots of varying size | 19940503 | 358/1.9 |

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| US 5243208 A | Semiconductor integrated circuit device having a gate array with a ram and by-pass signal lines which interconnect a logic section and I/O unit circuit of the gate array | 19930907 | 257/211 |
| US 5147742 A | Photomask and fabrication of the same | 19920915 | 430/5 |
| US 5103282 A | Semiconductor integrated circuit device having a gate array with a RAM and by-pass signal lines which interconnect a logic section and I/O unit circuit of the gate array | 19920407 | 257/211 |
| US 4959704 A | Semiconductor integrated circuit device | 19900925 | 257/208 |
| US 4809308 A | Method and apparatus for performing automated circuit board solder quality inspections | 19890228 | 378/98.2 |
| US 4569024 A | Process and installation for the treatment of rough sheets issuing from a rolling mill for flat products | 19860204 | 700/171 |
| US 4557125 A | Apparatus for on line, random sample, inspection of cold-formed blanks for threaded fasteners | 19851210 | 721/18.6 |
| US 4084896 A | Photoelectrophoretic web imaging apparatus | 19780418 | 399/131 |
| US 4049343 A | Combination imaging and grounding roller | 19770920 | 399/131 |
| US 4038677 A | Composite semiconductor unit and method | 19770726 | 257/529 |
| US 4006882 A | Photoelectrophoretic concurrent process cycling | 19770208 | 399/131 |
| US 3991992 A | Photoelectrophoretic web machine servo drive system | 19761116 | 270/52.07 |
| US 3989366 A | Photoelectrophoretic imaging apparatus having a device for increasing the friction force between webs | 19761102 | 399/131 |
| US 3985434 A | Photoelectrophoretic pigment discharging with A.C. corotron or U.V. illumination | 19761012 | 399/131 |
| US 3983479 A | Electrical defect monitor structure | 19760928 | 324/537 |
| US 3982710 A | Photoelectrophoretic web tension system | 19760928 | 242/412.2 |
| US 3981459 A | Photoelectrophoretic electrostatic tacking capstan web tension system | 19760921 | 242/419.3 |

Results of search set L6:

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| US 20040133369 A1 | Method and system for context-specific mask inspection | 20040708 | 702/59 |
| US 20040126003 A1 | Pattern inspection apparatus | 20040701 | 382/141 |
| US 20040115541 A1 | Mask defect inspecting method, semiconductor device manufacturing method, mask defect inspecting apparatus, defect influence map generating method, and computer program product | 20040617 | 430/30 |
| US 20040113647 A1 | Built-in self test of MEMS | 20040617 | 324/763 |
| US 20040095573 A1 | Excimer laser inspection system | 20040520 | 356/237.5 |
| US 20040091142 A1 | Qualifying patterns, patterning processes, or patterning apparatus in the fabrication of microlithographic patterns | 20040513 | 382/144 |

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| US 20040086791 A1 | Photomask defect testing method, photomask manufacturing method and semiconductor integrated circuit manufacturing method | 20040506 | 430/5 |
| US 20040060018 A1 | Defect tracking by utilizing real-time counters in network computing environments | 20040325 | 716/4 |
| US 20040057610 A1 | Mask defect analysis for both horizontal and vertical processing effects | 20040325 | 382/144 |
| US 20040055793 A1 | Electromagnetic inductive system with multi-induction loop layout and battery less pointer device and its method for locating the coordinate | 20040325 | 178/18.01 |
| US 20040015808 A1 | System and method for providing defect printability analysis of photolithographic masks with job-based automation | 20040122 | 716/19 |
| US 20040009416 A1 | Qualifying patterns, patterning processes, or patterning apparatus in the fabrication of micro lithographic patterns | 20040115 | 430/30 |
| US 20030212969 A1 | System and method for correcting charge collector violations | 20031113 | 716/5 |
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| US 20030138978 A1 | Method for manufacturing semiconductor devices and method and its apparatus for processing detected defect data | 20030724 | 438/5 |
| US 20030126581 A1 | User interface for a network-based mask defect printability analysis system | 20030703 | 716/19 |
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| US 20030095699 A1 | Method for applying a defect finder mark to a backend photomask making process | 20030522 | 382/149 |
| US 20030089614 A1 | Tooling frame able to adhere to tin | 20030515 | 205/125 |
| US 20030054573 A1 | Method for manufacturing semiconductor devices and method and its apparatus for processing detected defect data | 20030320 | 438/4 |
| US 20030050761 A1 | Inspection method and its apparatus, inspection system | 20030313 | 702/82 |
| US 20030029345 A1 | Ultra sensitive magnetic field sensors | 20030213 | 102/221 |
| US 20030022401 A1 | Semiconductor device inspection method | 20030130 | 438/14 |
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| US 20020073869 A1 | Ultra sensitive magnetic field sensors | 20020620 | 102/221 |
| US 20020052053 A1 | Inspection system and semiconductor device manufacturing method | 20020502 | 438/12 |
| US 20020035461 A1 | Visual analysis and verification system using advanced tools | 20020321 | 703/13 |
| US 20020019729 A1 | VISUAL INSPECTION AND VERIFICATION SYSTEM | 20020214 | 703/6 |

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| US 20010055085 A1 | DISPLAY APPARATUS AND METHOD FOR MANUFACTURING THE SAME | 20011227 | 349/139 |
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| US 20010020718 A1 | Semiconductor integrated circuit device and a method of manufacturing thereof | 20010913 | 257/326 |
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| US 6799130 B2 | Inspection method and its apparatus, inspection system | 20040928 | 702/82 |
| US 6797526 B2 | Method for manufacturing semiconductor devices and method and its apparatus for processing detected defect data | 20040928 | 438/5 |
| US 6782524 B2 | Photomask and integrated circuit manufactured by automatically correcting design rule violations in a mask layout file | 20040824 | 716/19 |
| US 6775817 B2 | Inspection system and semiconductor device manufacturing method | 20040810 | 716/21 |
| US 6774957 B2 | Display apparatus having an electric shielding wire and method for manufacturing the same | 20040810 | 349/40 |
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| US 6437341 B1 | Active-matrix substrate, two-dimensional image detector having the same, and pixel defect correcting method of two-dimensional image detector | 20020820 | 250/370.13 |
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| US 5937290 A | Method of manufacturing semiconductor integrated circuit devices using phase shifting mask | 19990810 | 438/238 |
| US 5933522 A | Specific part searching method and device for memory LSI | 19990803 | 382/149 |
| US 5896299 A | Method and a system for fixing hold time violations in hierarchical designs | 19990420 | 716/4 |
| US 5781446 A | System and method for multi-constraint domain electronic system design mapping | 19980714 | 716/9 |
| US 5771321 A | Micromechanical optical switch and flat panel display | 19980623 | 385/31 |
| US 5646776 A | Compact specimen inspection station | 19970708 | 359/393 |
| US 5594800 A | Sound reproduction system having a matrix converter | 19970114 | 381/20 |
| US 5477067 A | Semiconductor IC device having a RAM interposed between different logic sections and by-pass signal lines extending over the RAM for mutually connecting the logic sections | 19951219 | 257/211 |
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| US 5331458 A | Compact specimen inspection station | 19940719 | 359/393 |
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| US 5103282 A | Semiconductor integrated circuit device having a gate array with a RAM and by-pass signal lines which interconnect a logic section and I/O unit circuit of the gate array | 19920407 | 257/211 |
| US 4959704 A | Portable, shock-proof container surface profiling instrumentation | 19900925 | 257/208 |
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| US 4755874 A | Integrated circuit semiconductor device formed on a wafer | 19880705 | 348/126 |
| US 4721995 A | Electrical defect monitor structure | 19880126 | 257/777 |
| US 3983479 A | | 19760928 | 324/537 |



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[Print Format](#)**1 Net ordering for timing and wiring optimization***Selinger, C.R.; Schell, T.A.; Kleinman, Y.;*

ASIC Conference and Exhibit, 1993. Proceedings., Sixth Annual IEEE International, 27 Sept.-1 Oct. 1993

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[\[Abstract\]](#) [\[PDF Full-Text \(428 KB\)\]](#) **IEEE CNF****2 Techniques for yield enhancement of VLSI adders***Zhan Chen; Koren, I.;*

Application Specific Array Processors, 1995. Proceedings., International Conference on, 24-26 July 1995

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European Design and Test Conference, 1997. ED&TC 97. Proceedings, 17-20 March 1997

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Test Conference, 1998. Proceedings. International, 18-23 Oct. 1998

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5 Three-dimensional defect sensitivity modeling for open circuits in ULSI structures

Kidambi, M.K.; Tyagi, A.; Madani, M.R.; Bayoumi, M.A.;

Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on , Volume: 17 Issue: 4 , April 1998

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6 Yield estimation of VLSI circuits with downscaled layouts

Pleskacz, W.A.;

Defect and Fault Tolerance in VLSI Systems, 1999. DFT '99. International Symposium on , 1-3 Nov. 1999

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7 SmartBitTM: bitmap to defect correlation software for yield improvement

Merino, M.A.; Cruceta, S.; Garcia, A.; Recio, M.;

Advanced Semiconductor Manufacturing Conference and Workshop, 2000 IEEE/SEMI , 12-14 Sept. 2000

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8 An optimal replacement policy for cooling of 3D stacked mesh array

Inoguchi, Y.; Matsuzawa, T.; Horiguchi, S.;

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9 A 3-step approach for performance-driven whole-chip routing

Yih-Chih Chou; Youn-Long Lin;

Design Automation Conference, 2001. Proceedings of the ASP-DAC 2001. Asia and South Pacific , 30 Jan.-2 Feb. 2001

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1 [RISCE—a reduced instruction set circuit extractor for hierarchical VLSI layout verification](#)

Volker Henkel, Ulrich Golze

June 1988 **Proceedings of the 25th ACM/IEEE conference on Design automation**

Full text available: pdf(1.00 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a circuit extractor preserving the hierarchical layout structure isomorphically. As opposed to existing extractors, our approach permits all cell overlaps which are electrically meaningful. New mask operations based on stretched geometries handle topologically open and closed areas. A reduced set of model independent instructions is introduced for device recognition. An existing implementation is discussed.

2 [An enhanced flow model for constraint handling in hierarchical multi-view design environments](#)

Pieter van der Wolf, Olav ten Bosch, Alfred van der Hoeven

November 1994 **Proceedings of the 1994 IEEE/ACM international conference on Computer-aided design**

Full text available: pdf(958.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present an enhanced design flow model that increases the capabilities of a CAD framework to support design activities on hierarchical multi-view design descriptions. This flow model offers new constructs for the configuration of complex design constraints in terms of conditions on the hierarchical multi-view structure of a design. The design flow management system enforces these constraints and uses them to inform the designer more effectively about the validity of verifica ...

3 Session 6A: placement II: Effective partition-driven placement with simultaneous level processing and global net views

Ke Zhong, Shantanu Dutt

November 2000 **Proceedings of the 2000 IEEE/ACM international conference on Computer-aided design**

Full text available:  [pdf\(113.97 KB\)](#)


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In this paper we take a fresh look at the partition-driven placement (PDP) paradigm for standard-cell placement for wire-length minimization. The goal is to develop several new algorithms for incorporation into a PDP framework that can rectify the well-known drawbacks of traditional PDP (increasingly localized view of nets with increasing levels of the partitioning tree, min-cut objective, inaccuracy and cost of terminal propagation (TP), irreversibility of move decisions), while preserving its ...

4 Automatic layout synthesis of leaf cells

Sanjay Rekhi, J. Donald Trotter, Daniel H. Linder

January 1995 **Proceedings of the 32nd ACM/IEEE conference on Design automation**

Full text available:  [pdf\(154.40 KB\)](#)

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5 Highlights of CMU research on CAD, CAM and CAT of VLSI circuits

John Paul Shen



November 1999 **Proceedings of 1986 ACM Fall joint computer conference**

Full text available:  [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

6 Technology retargeting for IC layout

John Lakos

June 1997 **Proceedings of the 34th annual conference on Design automation - Volume 00**

Full text available:  [pdf\(87.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
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The ability to recognize polygon-based layout as a collection of objects representing circuit elements connected by path-based wires, enables existing designs implemented using an older fabrication process to be reimplanted quickly in a new process. The approach taken here, based on layout generator technology, is to create a collection of parameterized circuit objects that, with appropriate arguments, are able to represent the devices (e.g., transistors, contacts) implicitly described in the flattened ...

7 Placement of variable size circuits on LSI masterslices

K. H. Khokhani, A. M. Patel, W. Ferguson, J. Sessa, D. Hatton

June 1981 **Proceedings of the 18th conference on Design automation**

Full text available:  [pdf\(671.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With the advent of large scale integration (LSI and VLSI), logic circuit densities per chip have grown to hundreds and thousands. The arrangement of interconnected logic circuits of different sizes and shapes poses a difficult combinatorial placement problem. In this paper, an overview of techniques is presented for placing different size rectangular circuits with limited locations on the chip, considering the function of level sensitive scan design (LSSD)1, as well as ...

8 Hierarchical Current Density Verification for Electromigration Analysis in Arbitrary Shaped Metallization Patterns of Analog Circuits

G. Jerke, J. Lienig

March 2002 **Proceedings of the conference on Design, automation and test in Europe**

Full text available:  [pdf\(367.21](#)

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Electromigration is caused by high current density stress in metallization patterns and is a major source of break-down in electronic devices. It is therefore an important reliability issue to verify current densities within all stressed metallization patterns. In this paper we propose a new methodology for hierarchical verification of current densities in arbitrarily shaped analog circuit layouts, including a quasi-3D model to verify irregularities such as vias. Our approach incorporates thermal simul ...

9 A 2-dimensional placement algorithm for the layout of electrical circuits.

Daniel G. Schweikert

June 1976 **Proceedings of the 13th conference on Design automation**

Full text available:  [pdf\(803.45](#)
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PLAC is a multi-algorithm, 2-dimensional placement program which accommodates many of the "real world" constraints which occur in the layout of electrical circuits. PLAC was implemented as part of LTX [1], a general integrated circuit layout system, but is capable of handling circuit layout tasks from other technologies (e.g., PC boards, ceramic substrates). PLAC interlaces constructive initial placement with iterative pairwise exchange, using an approximation of total ...

10 A 2-dimensional placement algorithm for the layout of electrical circuits

D. G. Schweikert

June 1988 **Papers on Twenty-five years of electronic design automation**


Full text available:  [pdf\(960.80](#)
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11 Cellular image processing techniques for VLSI circuit layout validation and routing

T. N. Mudge, R. A. Rutenbar, R. M. Loughheed, D. E. Atkins

January 1982 **Proceedings of the 19th conference on Design automation**

Full text available:  [pdf\(769.83](#)
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The architecture of the Cytocomputer?, an existing special-purpose, pipelined cellular image processor, is described. A formalism used to express cellular operations on images is then given. Cellular image processing algorithms are then developed that perform (1) design rule checks (DRC's) on VLSI circuit layouts, and (2) Lee-type wire routing. Two sets of cellular image processing transformations for checking the Mead and Conway design rules and for Lee-routing have been defined and used t ...

12 Automatic VLSI layout verification

Laurin Williams

June 1981 **Proceedings of the 18th conference on Design automation**


Full text available:  [pdf\(468.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Xerox has instituted a set of software tools that close the loop between circuit design and mask generation of VLSI and provide checks and analysis along the way. The software includes circuit extraction, capacitance calculation, nodal analysis and logic recognition as well as interfaces to graphic systems. The systematic method of capturing circuit designs and the software packages for analyzing mask data are described in this paper. The kinds of errors checked and the method of reporting ...

13 Magic: A VLSI layout system

John K. Ousterhout, Gordon T. Hamachi, Robert N. Mayo, Walter S. Scott, George S. Taylor

June 1984 **Proceedings of the 21st conference on Design automation**

Full text available:  [pdf\(825.95 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Magic is a "smart" layout system for integrated circuits. The user interface is based on a new design style called logs, which combines the efficiency of mask-level design with the flexibility of symbolic design. The system incorporates expertise about design rules and connectivity directly into the layout system in order to implement powerful new operations, including: a continuous design-rule checker that operates in background to maintain an up-to-date pictur ...

14 The Compilation of Regular Expressions into Integrated Circuits

Robert W. Floyd, Jeffrey D. Ullman


July 1982 **Journal of the ACM (JACM)**, Volume 29 Issue 3

Full text available:  [pdf\(983.18 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 A data path layout assembler for high performance DSP circuits

H. Cai, S. Note, P. Six, H. De Man

January 1991 **Proceedings of the 27th ACM/IEEE conference on Design automation**


Full text available:  [pdf\(767.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A system is presented which automatically generates layout of bit-sliced data paths in high performance DSP circuits. The system consists of a linear placement tool, a track assignment tool and detailed layout tools. In this paper we will present algorithms for linear placement of modules and routing track assignment across the modules. By taking advantage of the inherent structure of the circuits an A* based linear placement algorithm has produced better results compar ...

16 The role of timing verification in layout synthesis

Jacques Benkoski, Andrzej J. Strojwas

June 1991 **Proceedings of the 28th conference on ACM/IEEE design automation**

Full text available:  [pdf\(889.07 KB\)](#)

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17 Fabric-driven logic synthesis: River PLAs: a regular circuit structure

Fan Mo, Robert K. Brayton

June 2002 **Proceedings of the 39th conference on Design automation**

Full text available:  [pdf\(297.44 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)




A regular circuit structure called a River PLA and its re-configurable version, Glacier PLA, are presented. River PLAs provide greater regularity than circuits implemented with standard-cells. Conventional optimization stages such as technology mapping, placement and routing are eliminated. These two features make the River PLA a highly predictable structure. Glacier PLAs can be an alternative to FPGAs, but with a simpler and more efficient design methodology.

Keywords: programmable logic array, river routing

18 The evolution of design automation to meet the challenges of VLSI

Lawrence M. Rosenberg

June 1980 **Proceedings of the 17th conference on Design automation**

Full text available:  [pdf\(997.27 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)




This paper presents the author's opinion of the major problems confronting Design Automation for VLSI and how Design Automation may evolve to meet these challenges. The paper first takes a historical look at the driving forces for Design Automation development by analyzing the evolution of Design Automation at RCA. It looks at both some successful and unsuccessful development efforts and attempts to isolate some of the criteria necessary for success. It review RCA's current LSI Design Autom ...

19 A "non-restrictive" artwork verification program for printed circuit boards

David Kaplan

January 1982 **Proceedings of the 19th conference on Design automation**

Full text available:  [pdf\(639.01 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)




This paper describes a PCB artwork verification program which imposes virtually no restrictions on the layout designer. The program is capable of making fast and reliable verifications of layouts of any type and style. The concepts and techniques used to achieve the "non-restrictive" feature of the program are discussed. A unique characteristic of the program is the special treatment of nonelectrical elements. The program has been proven by continuous practical use in a dynamic ...

20 Session 8C: advances in layout and synthesis: Layout-driven area-constrained timing optimization by net buffering

Rajeev Murgai

November 2000 **Proceedings of the 2000 IEEE/ACM international conference on Computer-aided design**

Full text available:  [pdf\(252.73 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

With the advent of deep sub-micron technologies, interconnect loads and delays are becoming significant, and layout-driven synthesis has become the need of the day. However, given the tight constraints imposed by the layout (e.g., area availability, congestion), only those synthesis transforms can be made layout-driven that are local and layout-friendly. Examples of such transforms are net buffering, gate resizing, and gate replication. In this paper, we address the problem of minimizing the dela ...

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